

Product Name : Polyphyllin I

Synonyms : —

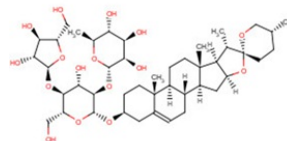
Cat No. : M18674

CAS Number : 50773-41-6

Molecular Formula : C₄₄H₇₀O₁₆

Formula Weight : 855.03

Chemical Name : —



Description : Polyphyllin D induces apoptosis via the mitochondrial apoptotic pathway as evidenced by decreased Bcl-2 expression levels, disruption of MMP and increased Bax, cytochrome C, and cleaved-caspase-3 levels. Polyphyllin D has an anti-angiogenic effect. Polyphyllin D has toxicity in human RBCs as well as its underlying mechanism for the hemolysis and eryptosis/erythroptosis. Polyphyllin D has strong anticancer activity, can overcome drug resistance in R-HepG2 cells and elicit programmed cell death via mitochondrial dysfunction.

Pathway : Apoptosis

Target : NF-κB

Receptor : Others

Solubility : —

SMILES : [C@@H]1([C@@H]([C@@H]([C@@H]([C@@H](O1)C)O)O)O[C@@H]1[C@@H](O[C@@H]([C@@H]([C@@H]1O)O)[C@@H]1O[C@@H]([C@@H]([C@@H]1O)O)CO)CO)O[C@@H]1CC2=CC[C@@H]3[C@@H]4C[C@@H]5O[C@@]6([C@@H]([C@@H]5[C@@]4(CC[C@@H]3[C@]2(CC1)C)C)C)CC[C@@H](CO6)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Wu L, et al. Polyphyllin D induces apoptosis in K562/A02 cells through G2/M phase arrest. Wu LI, Li Q, Liu Y. J Pharm Pharmacol. 2014 May;66(5):713-21.